

CLAIMS

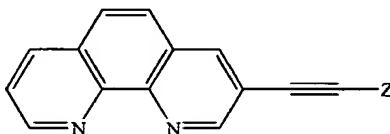
We claim:

1. A method for making acetylene derivatives of phenanthrolines comprising reacting a 3,8 brominated phenanthroline with an aromatic acetylene.

5 2. The method of claim 1 wherein said 3,8 brominated phenanthroline further comprises a transition metal atom.

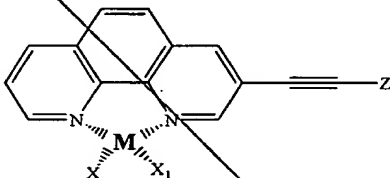
3. The method of claim 1 wherein said 3,8 brominated phenanthroline further comprises a chelated transition metal atom.

4. A compound having the formula comprising:



10 wherein Z is alkyl, substituted alkyl, aromatic or substituted aromatic group.

5. A compound according to claim 5 having the formula comprising



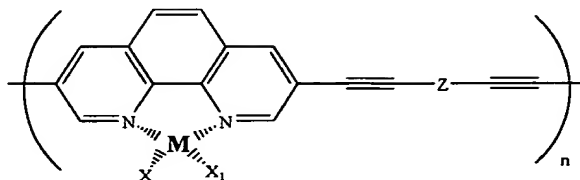
wherein

M is a transition metal ion; and

X and X₁ are co-ligands.

Sub 91
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6. A compound according to claim 4 which is a polymer having the formula:

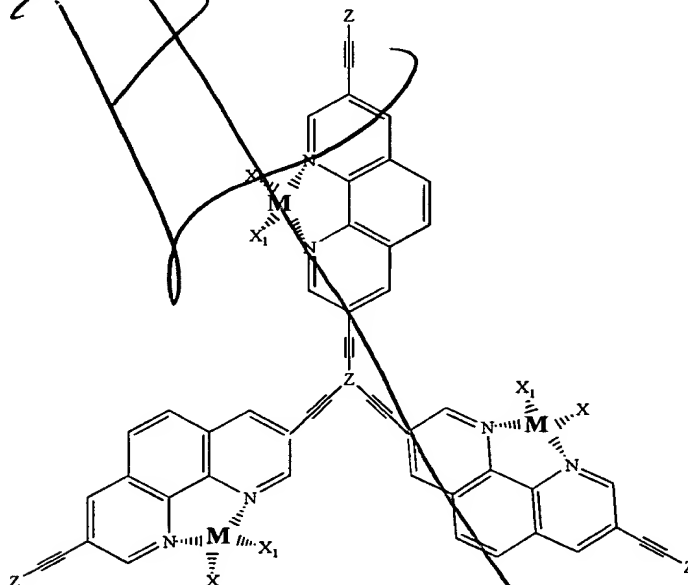


wherein

M is a transition metal ion and

X and X₁ are co-ligands.

5. 7. A compound according to claim 6 having the formula:



8. A compound according to claim 4 wherein Z comprises the base of a nucleoside.

9. A compound according to claim 4 wherein Z comprises the base of a nucleotide.

10. A compound according to claim 4 wherein Z comprises the phosphoramidite form of the nucleotide.

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Sub B27

add 02

add B57

add E2

add f3